

# INTERNATIONAL SEARCH REPORT

International application No  
PCT/GB2009/001354

A. CLASSIFICATION OF SUBJECT MATTER  
INV. G10L19/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
G10L

Documentation searched other than minimum documentation to the extent that each document is included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of documents, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DYMARSKI P ED - RAO K R ET AL: "Watermarking of Audio Signals Using Adaptive Subband Filtering and Manchester Signaling" SYSTEMS, SIGNALS AND IMAGE PROCESSING, 2007 AND 6TH EURASIP CONFERENCE FOCUSED ON SPEECH AND IMAGE PROCESSING, MULTIMEDIA COMMUNICATIONS AND SERVICES. 14TH INTERNATIONAL WORKSHOP ON, IEEE, PI, 1 June 2007 (2007-06-01), pages 221-224, XP031159597 ISBN: 978-961-248-036-3 abstract page 221, right-hand column, last paragraph section 4, 'Manchester signaling using mirrored cepstral kernels'; page 224, left-hand column</p>	1-48

<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C.		<input checked="" type="checkbox"/> See patent family annex.	
<p>* Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"I" document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another claim or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"Z" document member of the same patent family</p>			
Date of the actual completion of the international search  11 August 2009		Date of mailing of the international search report  01/09/2009	
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentium 2 NL - 2200 HV Rijswijk Tel (+31-70) 340-2040 Fax (+31-70) 340-3016		Authorized officer  Ramos Sánchez, U	

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WEN-CHIH WU; CHEN O T -C: "An analysis-by-synthesis echo watermarking method"            2004 IEEE INTERNATIONAL CONFERENCE ON MULTIMEDIA AND EXPO (ICME),            vol. 3, 27 June 2004 (2004-06-27), - 30 June 2004 (2004-06-30) pages 1935-1938, XP002540747            left-hand column; figures 2-4</p>	<p>1-5,            14-28,            30-32,            42-48</p>
X	<p>US 2008/027734 A1 (ZHAO JUNHUI [CN] ET AL)            31 January 2008 (2008-01-31)            page 4, paragraph 55 - page 5, paragraph 57; figure 4            page 4, paragraph 48 - paragraph 53            page 6 - paragraph 66</p>	1-48
A	<p>T-C CHEN O ET AL: "Highly Robust, Secure, and Perceptual-Quality Echo Hiding Scheme" IEEE TRANSACTIONS ON AUDIO, SPEECH, AND LANGUAGE PROCESSING, IEEE SERVICE CENTER, NEW YORK, NY, US,            vol. 16, no. 3, 1 March 2008 (2008-03-01), pages 629-638, XP011203080            ISSN: 1558-7916            page 630, right-hand column; figure 1            page 632; figure 3</p>	1-48
A	<p>PETROVIC R ET AL: "Data hiding within audio signals" TELECOMMUNICATIONS IN MODERN SATELLITE, CABLE AND BROADCASTING SERVICE S, 1999. 4TH INTERNATIONAL CONFERENCE ON NIS, YUGOSLAVIA 13-15 OCT. 1999, PISCATAWAY, NJ, USA, IEEE, US,            vol. 1, 13 October 1999 (1999-10-13), pages 88-95, XP010359110            ISBN: 978-0-7803-5768-6            page 91, right-hand column, last paragraph - page 92, right-hand column, paragraph 1</p>	26,30-32
A	<p>GRUHL D ET AL: "ECHO HIDING" INFORMATION HIDING. INTERNATIONAL WORKSHOP PROCEEDINGS, XX, XX,            vol. 295, 30 May 1996 (1996-05-30), pages 295-315, XP002040126            page 311 - page 315</p>	26,30-32

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No

PCT/GB2009/001354

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 2008027734	AI	31-01-2008	CN	101115124 A	30-01-2008
			JP	2008058953 A	13-03-2008